

Product datasheet for **AM09249PU-N**

Colorectal Carcinoma/CD3 (Bispecific) Mouse Monoclonal Antibody [Clone ID: BS-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	BS-1
Applications:	ELISA, FC
Recommended Dilution:	ELISA: The bispecific antibody has been shown to detect the presence of the tumor-associated antigen in the serum of patients with colorectal carcinoma, and reacted with mucin-like oncofetal pancarcinoma antigen, glycoprotein TAG-72. Fluorescence Flow Cytometry.
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Immunogen:	The original CRC mAb (Y94) used human colorectal carcinoma as immunogen. The original CD3 mAb (JXT3) used human peripheral T lymphocytes as immunogen
Specificity:	This Hybrid bispecific CRC/CD3 antibody recognizes Human colorectal carcinoma antigen (CRC)/CD3 molecule on Human T cells. This is a bispecific antibody produced by fusion of two hybridoma cell lines. The Human colorectal carcinoma antigen (CRC) mAb secreting cell line was transfected by mpSV2gpt. The human CD3 mAb secreting cell line (JXT3) was transfected by mpSV2neo. The somatic fusion between CRC and JXT3 cells produced quadroma CRCgpt/CD3neo, which were selected and cloned in media containing both Mycophenolic acid and Geneticin. Quadromas showing both murine IgG1 and IgG2a was subcloned for bispecific antibody CRC/CD3 production.
Formulation:	0.01M PBS, pH 7.0 without preservatives State: Aff - Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with Double distilled water to adjust the final concentration to 1.0 mg/ml.
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Background:

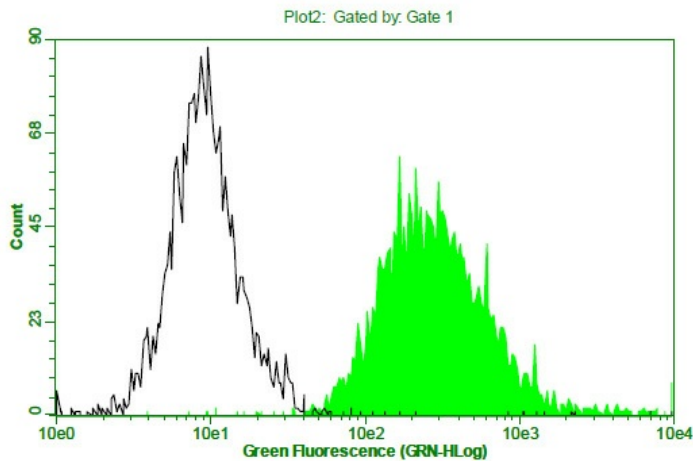
Colorectal carcinoma is the cancer developed in the colon or rectum of the digestive system. In developed countries, it is the most common cancer in aging population. Genetic deposition and a less active life style contribute to the development of the cancer. Molecular pathological study showed that altered Wnt-APC- β -catenin signaling pathway, mutated p53, and deactivated TGF- β and DCC (Deleted in Colon Cancer) are involved with the pathogenesis. The cancer is currently screened with a fecal occult blood test in people over 50 years old and the malignancy is confirmed by tumor biopsy. The search for specific biomarker for non-invasive test is still ongoing.

CD3 exists on the cell surface of all T-cell types. It is used for differentiating Tcells from other leukocytes such as B cells and natural killer cells. CD3 is the accessory molecule in the T cell receptor complex. In the presence of CD3 and ζ - chain, T-cell receptor binds to antigen presented by MHC and transfers signal for T-cell activation.

The hybrid bi-specific antibody binds to CD3 and colorectal carcinoma related antigen at its two different Fabs. Theoretically, the bi-specific antibody brings the target cancer antigen near Tcells and could enhance T-cell mediated immunity to cancer. However, if the binding to CD3 disrupts the CD3's accessory function, T-cell immunity suppression could be resulted.

Synonyms:

CRC/CD3, Hybrid bispecific antibody

Product images:

Above is the histogram of Jurkat cells stained with mouse anti-Human colorectal carcinoma/CD3 (bispecific) mAb (10g/ml) and fluorescence labelled secondary antibody. Black line represents the histogram of control antibody, Mouse anti-TB 38Kd antigen mAb clo